

INPUT

1953 Gallows Road, Suite 560, Vienna VA 22182 (703) 847-6870
Fax (703) 847-6872

FACSIMILE TRANSMITTAL FORM

Date: May 2, 1990
Destination: Mr. Vieri
ATTENTION: ANDREA JERIS
Telephone Number: _____
Facsimile Number: 415-961-3966

From: DOUG WILDER

Number of Pages: 1 of 4

Confidential: Yes _____ No _____

Urgent: Yes _____ No _____

Description: ANDREA, ATTACHED ARE 3 CHART
CHANGES FOR JJSEM. THEY ARE CHART NO'S
JJSEM-1-4, JJSEM-DRW4-10 AND JJSEM-DRW4-21.
THE BOOK FOR JAPAN SHOULD BE 4 CHARTS TO
A PAGE AND IN THE FOLLOWING SEQUENCE,
1. SYSTEMS INTEGRATION - JJSEM-1 THEN JJSEM-1-25
2. NETWORK INTEGRATION - JJSEM-2-1 THEN JJSEM-2-29.
3. IMAGE PROCESSING - JJSEM-DRW4-1 THEN JJSEM-DRW4.
4. PROGRAM MANAGEMENT - JJSEM4-1 THEN JJSEM4-67

.....
INPUT Project Charge Code: _____
File: _____
Chron: _____
Contact: _____
Other: _____ (specify) _____
DOUG

CALIFORNIA - NEW YORK - WASHINGTON, D.C. - LONDON - PARIS - TOKYO

1. The first part of the paper discusses the importance of maintaining accurate records of all transactions. This is essential for the proper management of the company's finances and for ensuring that all parties involved are kept up to date on the current status of the business.

2. The second part of the paper discusses the importance of maintaining accurate records of all transactions. This is essential for the proper management of the company's finances and for ensuring that all parties involved are kept up to date on the current status of the business.

3. The third part of the paper discusses the importance of maintaining accurate records of all transactions. This is essential for the proper management of the company's finances and for ensuring that all parties involved are kept up to date on the current status of the business.

4. The fourth part of the paper discusses the importance of maintaining accurate records of all transactions. This is essential for the proper management of the company's finances and for ensuring that all parties involved are kept up to date on the current status of the business.

5. The fifth part of the paper discusses the importance of maintaining accurate records of all transactions. This is essential for the proper management of the company's finances and for ensuring that all parties involved are kept up to date on the current status of the business.

6. The sixth part of the paper discusses the importance of maintaining accurate records of all transactions. This is essential for the proper management of the company's finances and for ensuring that all parties involved are kept up to date on the current status of the business.

7. The seventh part of the paper discusses the importance of maintaining accurate records of all transactions. This is essential for the proper management of the company's finances and for ensuring that all parties involved are kept up to date on the current status of the business.

8. The eighth part of the paper discusses the importance of maintaining accurate records of all transactions. This is essential for the proper management of the company's finances and for ensuring that all parties involved are kept up to date on the current status of the business.

9. The ninth part of the paper discusses the importance of maintaining accurate records of all transactions. This is essential for the proper management of the company's finances and for ensuring that all parties involved are kept up to date on the current status of the business.

10. The tenth part of the paper discusses the importance of maintaining accurate records of all transactions. This is essential for the proper management of the company's finances and for ensuring that all parties involved are kept up to date on the current status of the business.

INPUT

1953 Gallows Road, Suite 560, Vienna VA 22182 (703) 847-6870
Fax (703) 847-6872

FACSIMILE TRANSMITTAL FORM

Date: 5/4/90
Destination: M. V.
ATTENTION: ANDREA
Telephone Number: _____
Facsimile Number: _____

From: JOHN E. FRANK

Number of Pages: 1 of 3

Confidential: Yes _____ No ✓

Urgent: Yes _____ No ✓

Description: DESPITE ALL OUR "CARE AND ATTENTION",
WE MISSED TWO CHARTS IN THE ORIGINAL DRAFTS -
PLEASE MAKE 2 REPLACING SLIDES & MASTER B&W
PRINTS AND RETURN ASAP (NEED FOR 5/10 BUREAU)

INPUT Project Charge Code: _____

File: _____

Chron: _____

Contact: _____

Other: _____ (specify) _____

CALIFORNIA - NEW YORK - WASHINGTON, D.C. - LONDON - PARIS - TOKYO

1870

1871

1872

1873

1874

1875

1876

1877

1878

1879

1880

1881

1882

1883

1884

1885

1886

1887

1888

1889

1890

1891

1892

1893

1894

1895

1896

1897

1898

1899

1900

Leading Systems Integration Vendors Vertical Industry Penetration

Vendor	<u>Number of Industries</u>
IBM	13
EDS/GM	10
Andersen Consulting	9
CSC	7
SHL Systemhouse	6

INPUT
SIIRC-JEF-35

Same as JISEMI-20

Notes

Leading Systems Integration Vendors Vertical Industry Penetration

Vendor	Number of Industries
	Share (Percent)
AT&T	6
Unisys	5
BCS	5
DEC	5

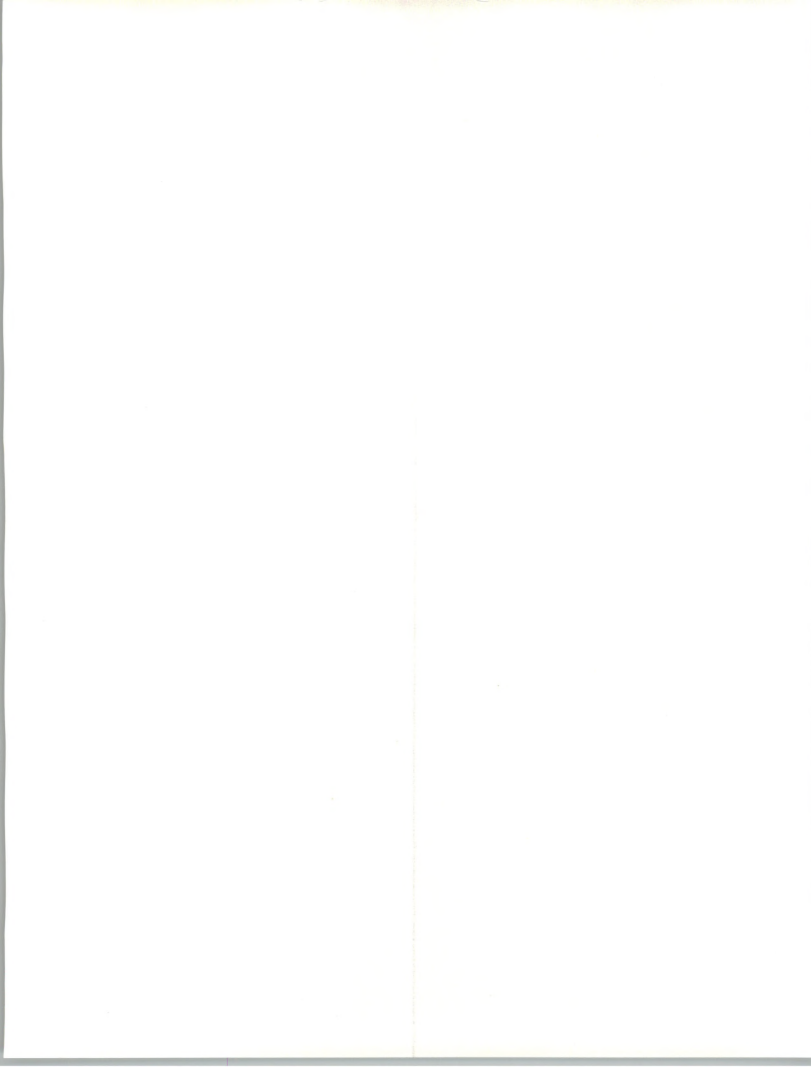
INPUT
SIIRCEJF-36

SAME AS JO SEM 1-21

Notes

Network Integration

A Growing Opportunity



Contents

- Definitions
- Business drivers
- Technology trends
- Market forecast
- Vendors
- Summary

INPUT
JJSEM-2-2

Notes



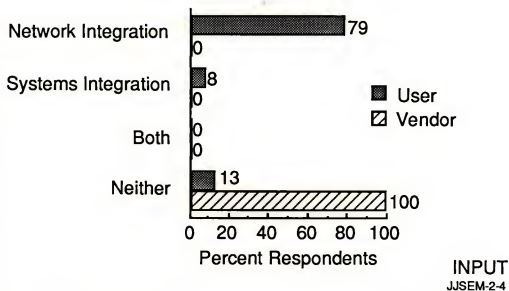
Definitions

INPUT
JSEM-2-3

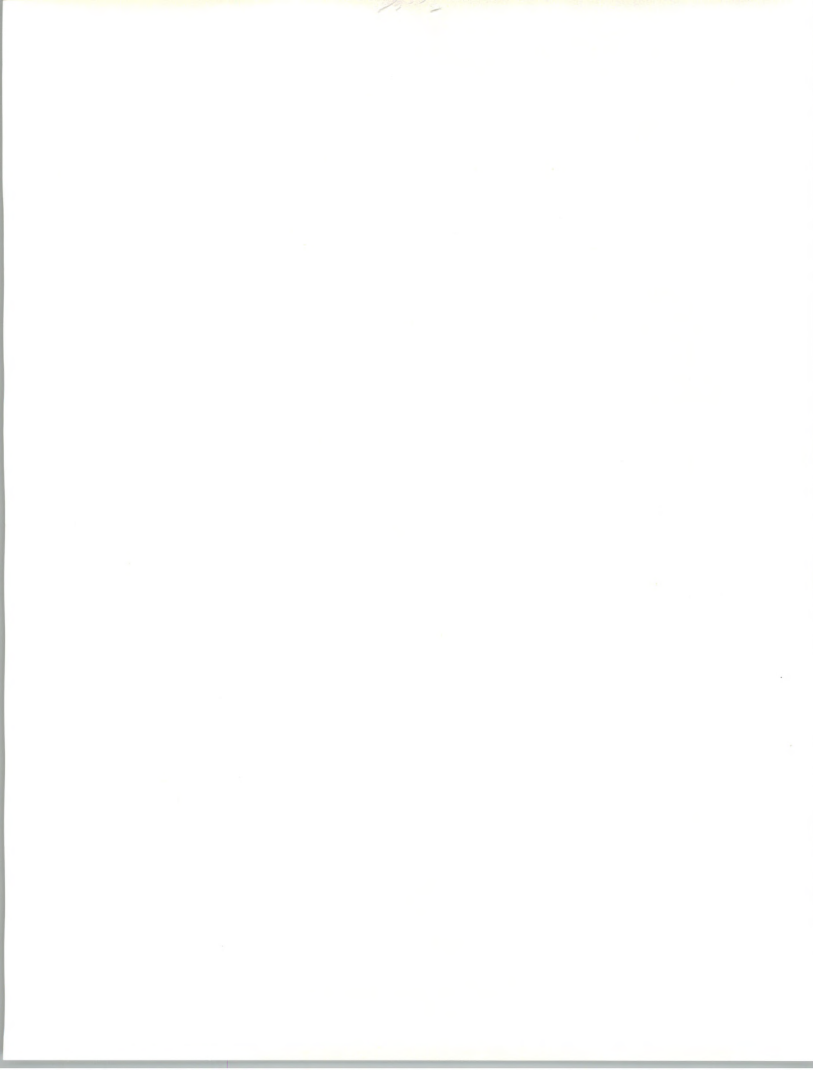
Notes



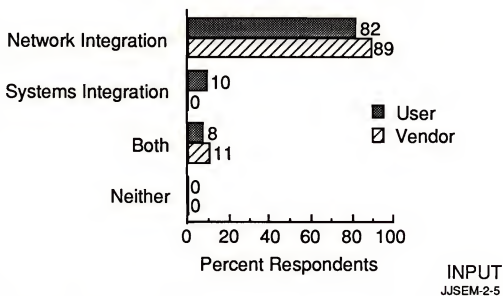
Network Consolidation



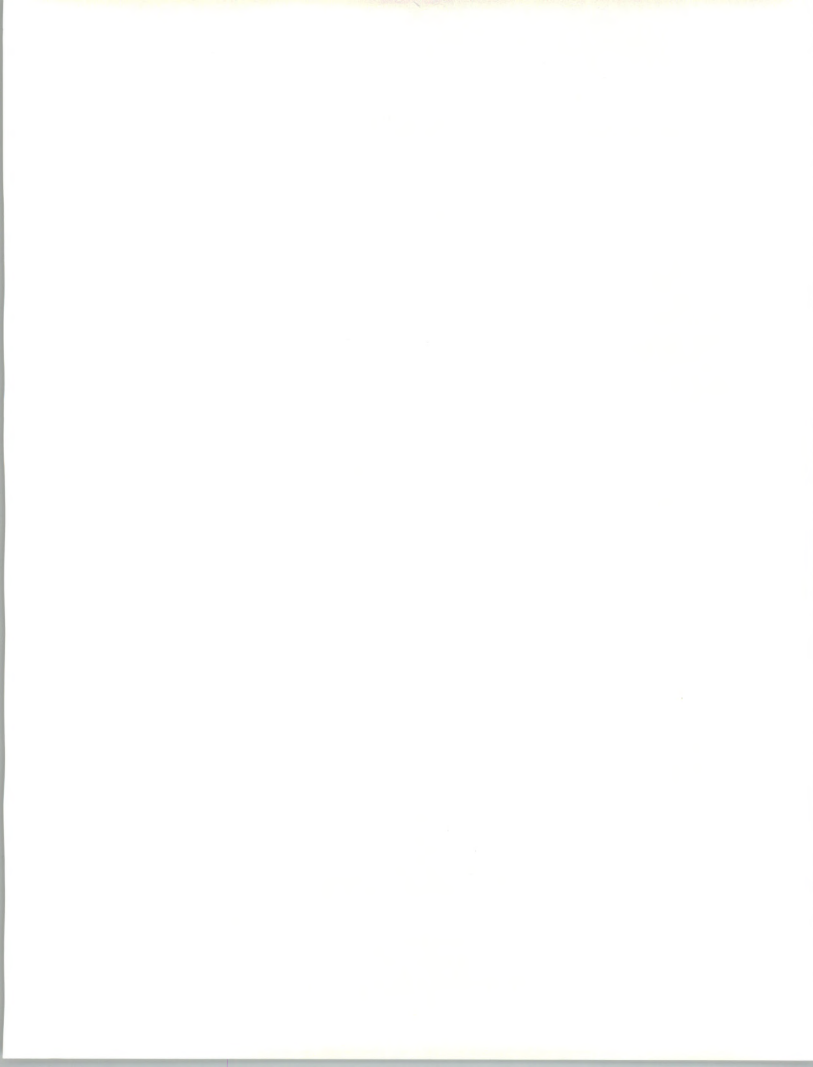
Notes



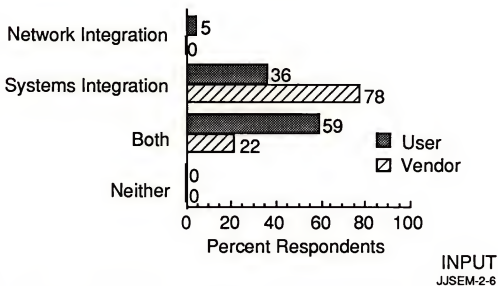
Voice/Data Integration



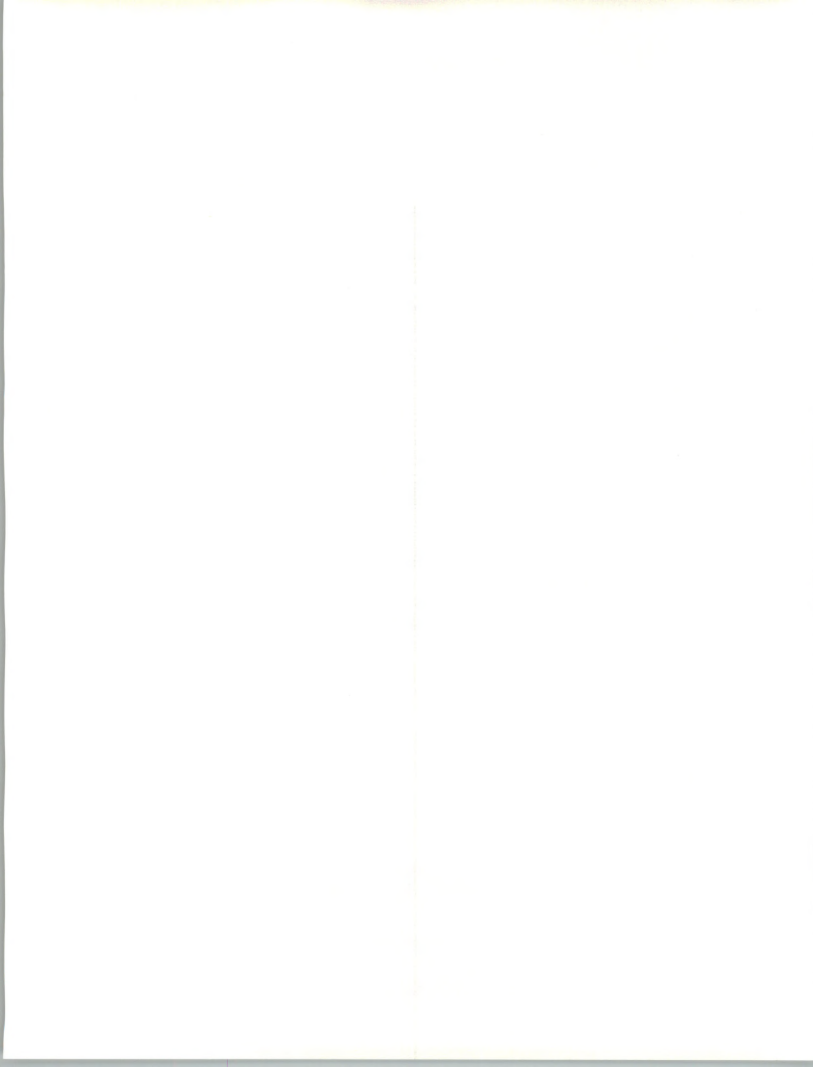
Notes



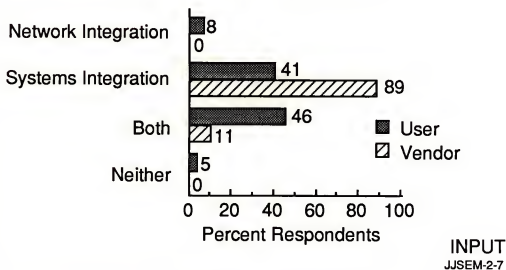
Voice/Data/Application Integration



Notes



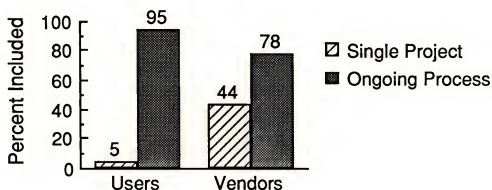
Systems Integration (Network Component)



Notes



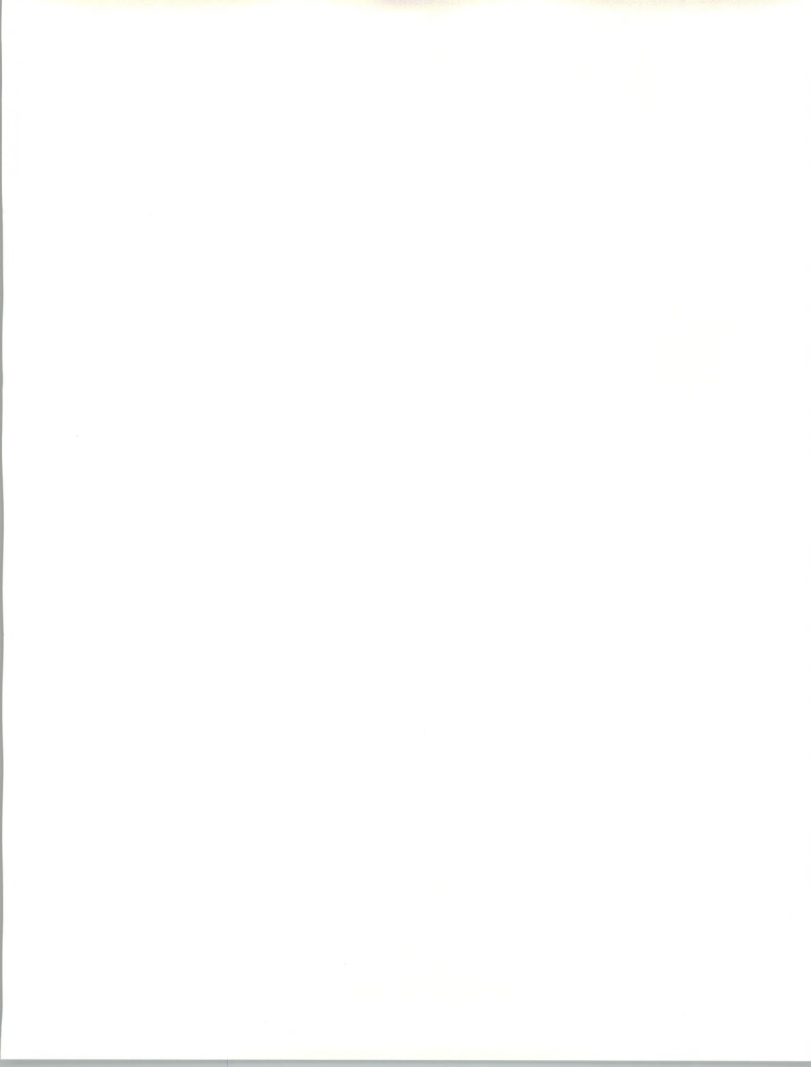
Is NI a Process or a Project?



Data totals more than 100% due to multiple responses

INPUT
JJSEM-2-8

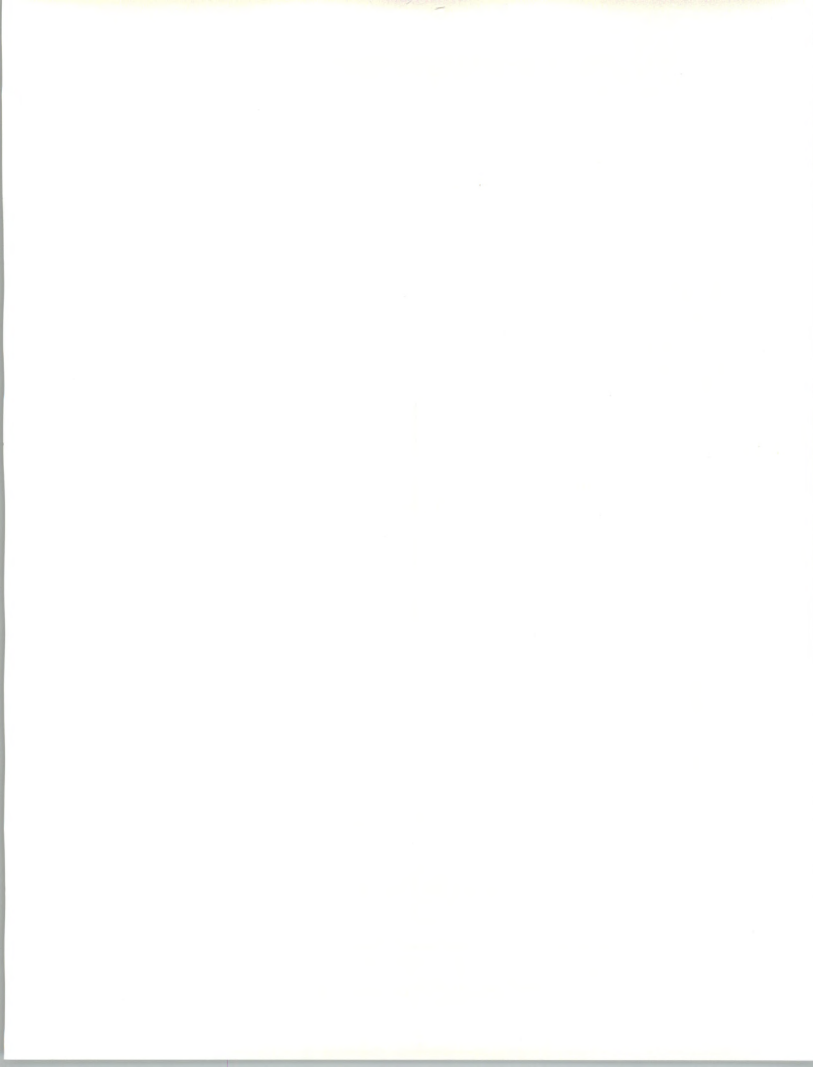
Notes



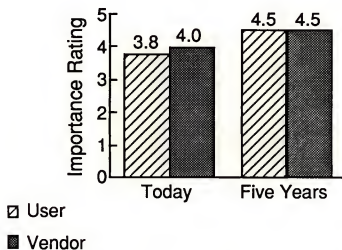
Business Development

INPUT
JJSEM-2-9

Notes



Importance of Network Integration

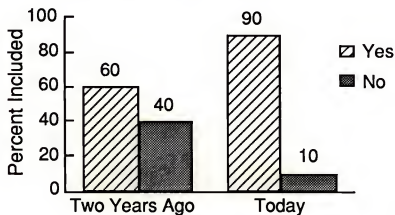


INPUT
JJSEM-2-10

Notes



Network Integration and Information Services Strategic Plan



INPUT
JJSEM-2-11

Notes

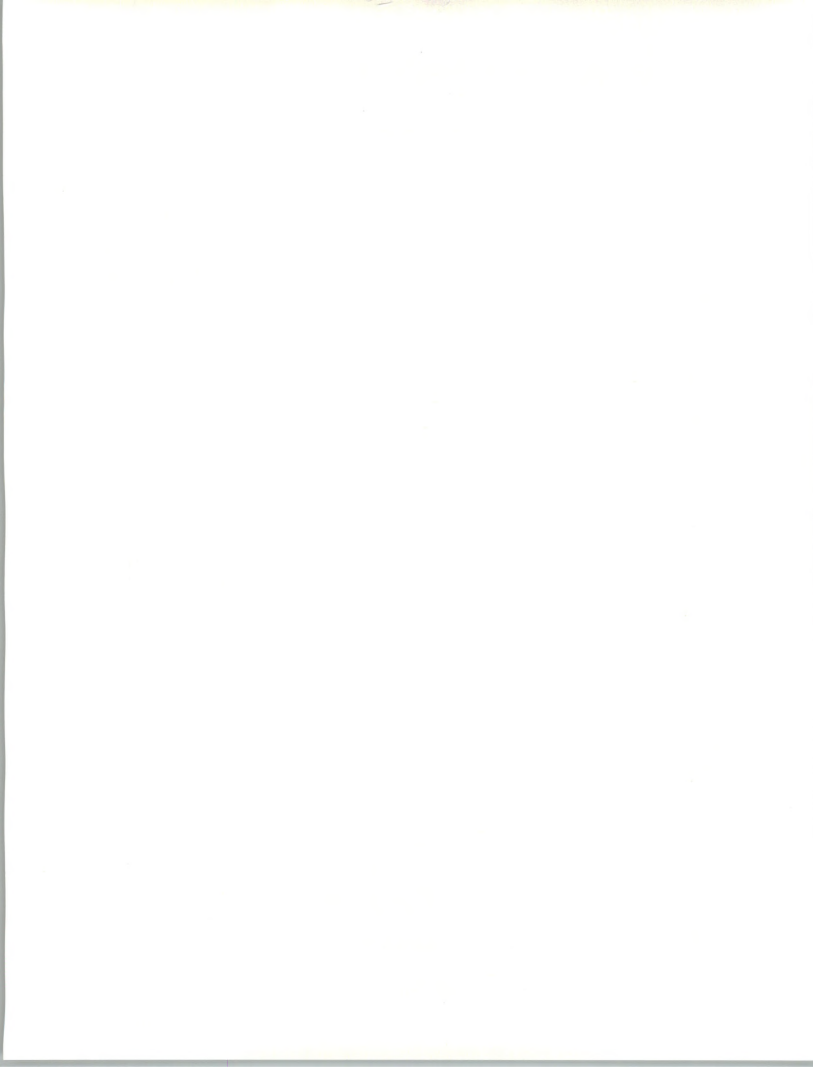


Network Integration Business Trends

- Increasing complexity
- Organization downsizing
- Global competitiveness
- Strategic positioning

INPUT
JJSEM-2-12

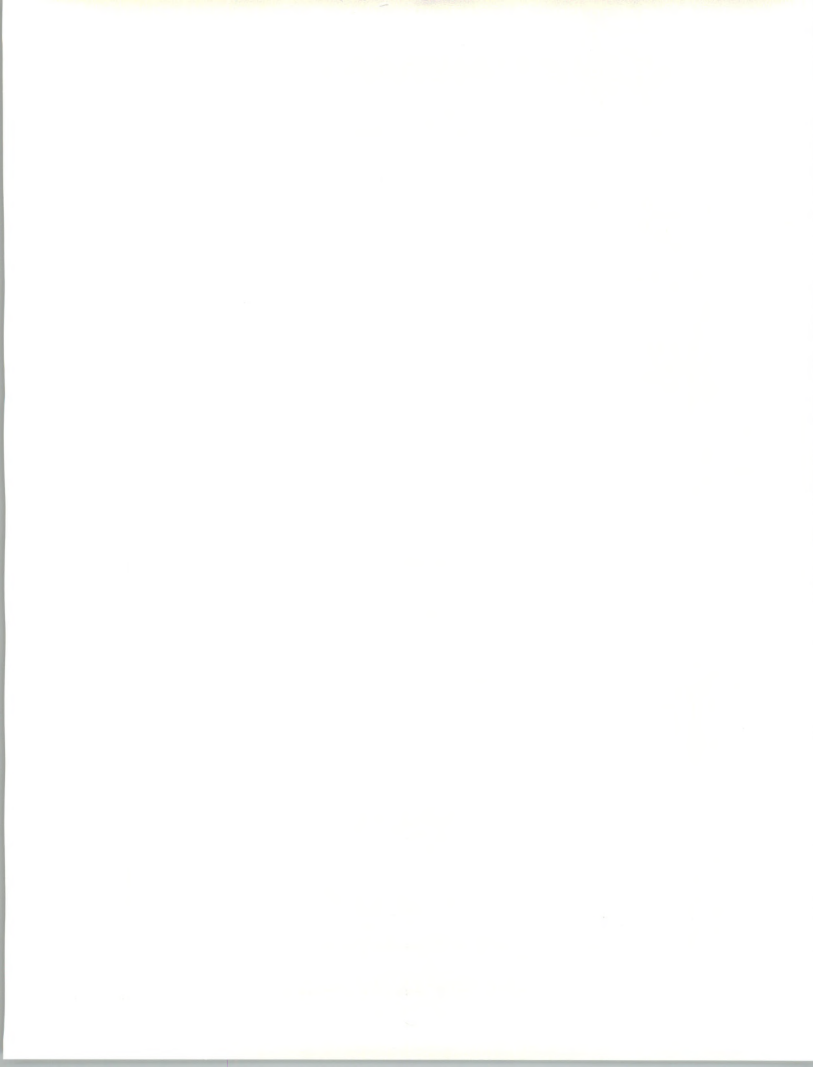
Notes



Technology Trends

INPUT
JJSEM-2-13

Notes



Network Integration Technology Trends

- Robust public networks
- Virtual network capability
- Enhanced value-added networks
- Increased PBX functionality
- Enhanced local-area networks

INPUT
JJSEM-2-14

Notes

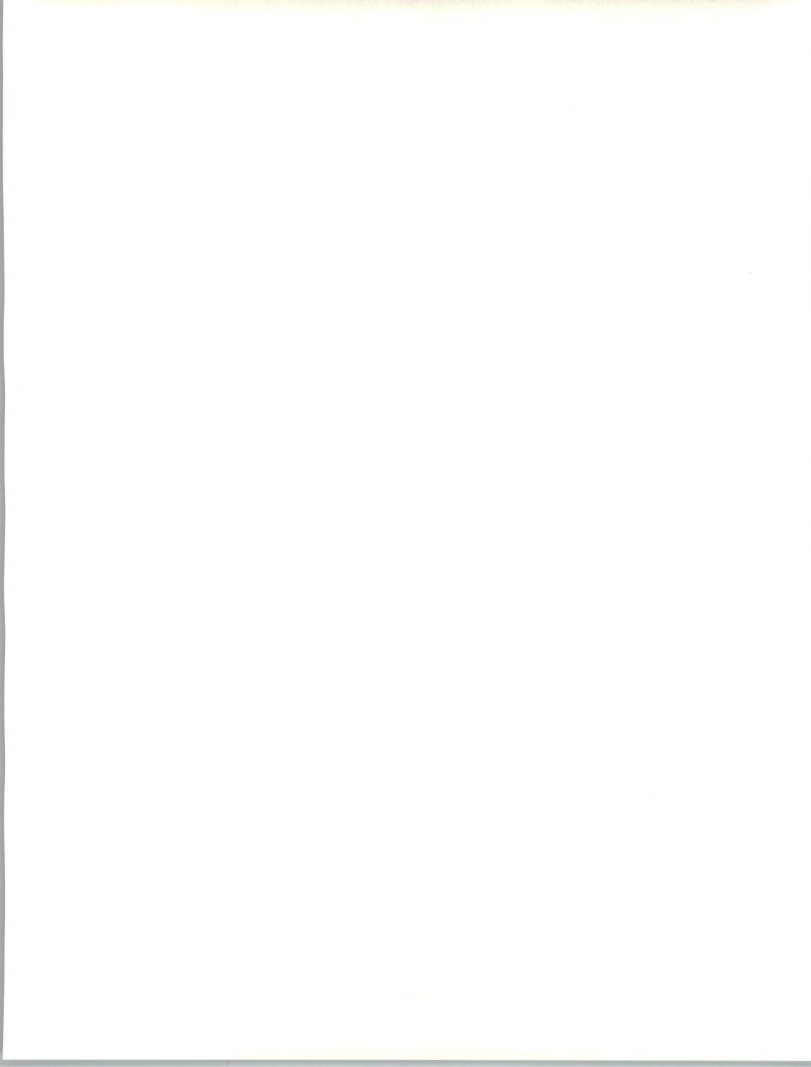


Network Integration Technology Trends

- Intelligent multiplexers
- RDBMSs
- Distributed processing
- PC/Workstation growth

INPUT
JJSEM-2-15

Notes



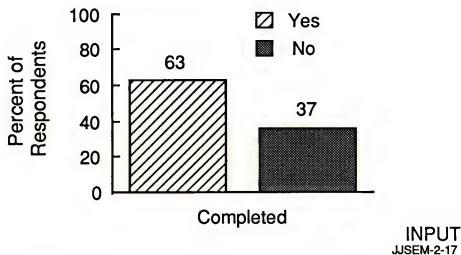
Market Forecast

INPUT
JJSEM-2-16

Notes



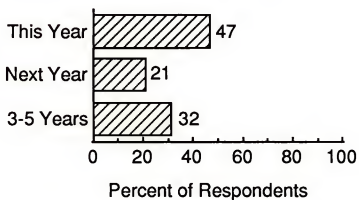
Network Integration Users Completed Projects



Notes

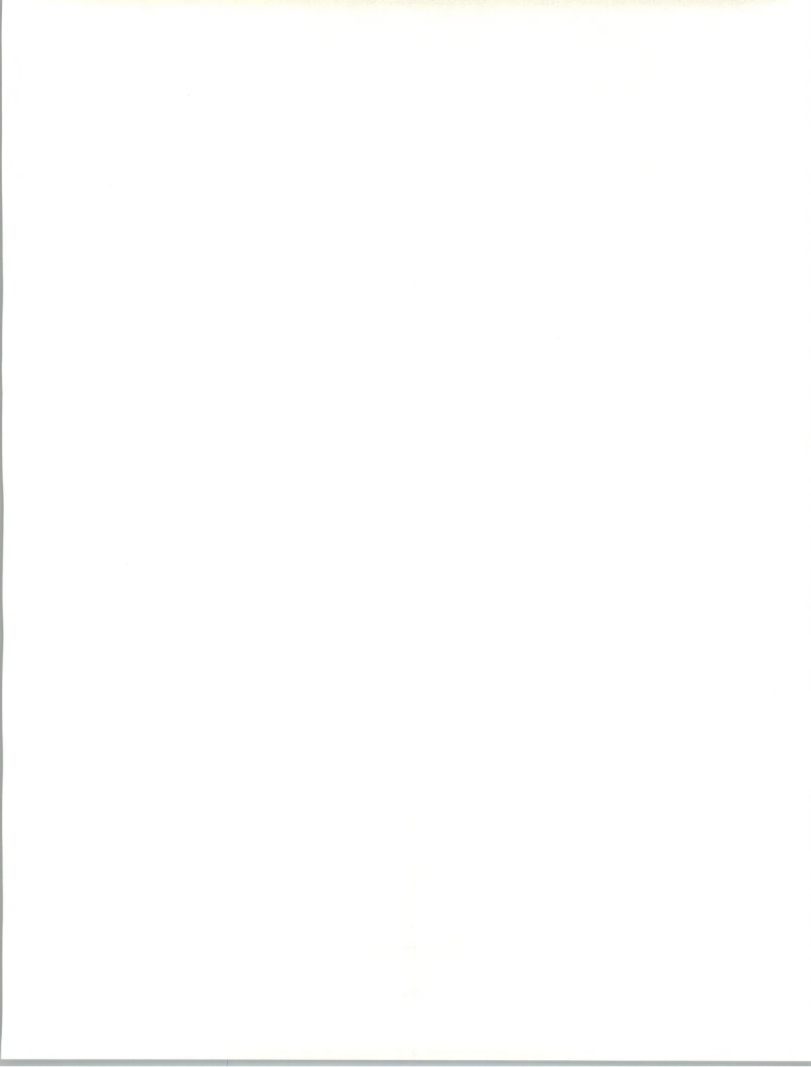


Network Integration Users Planned Projects

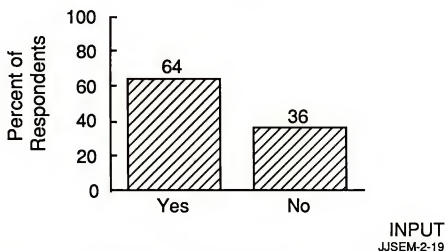


INPUT
JSEM-2-18

Notes



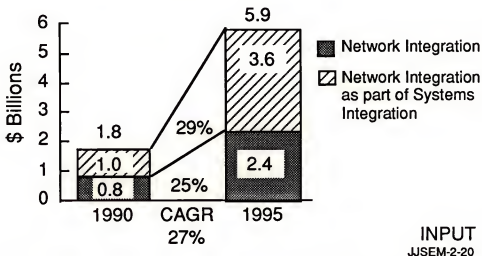
Users That Would Consider Contracting



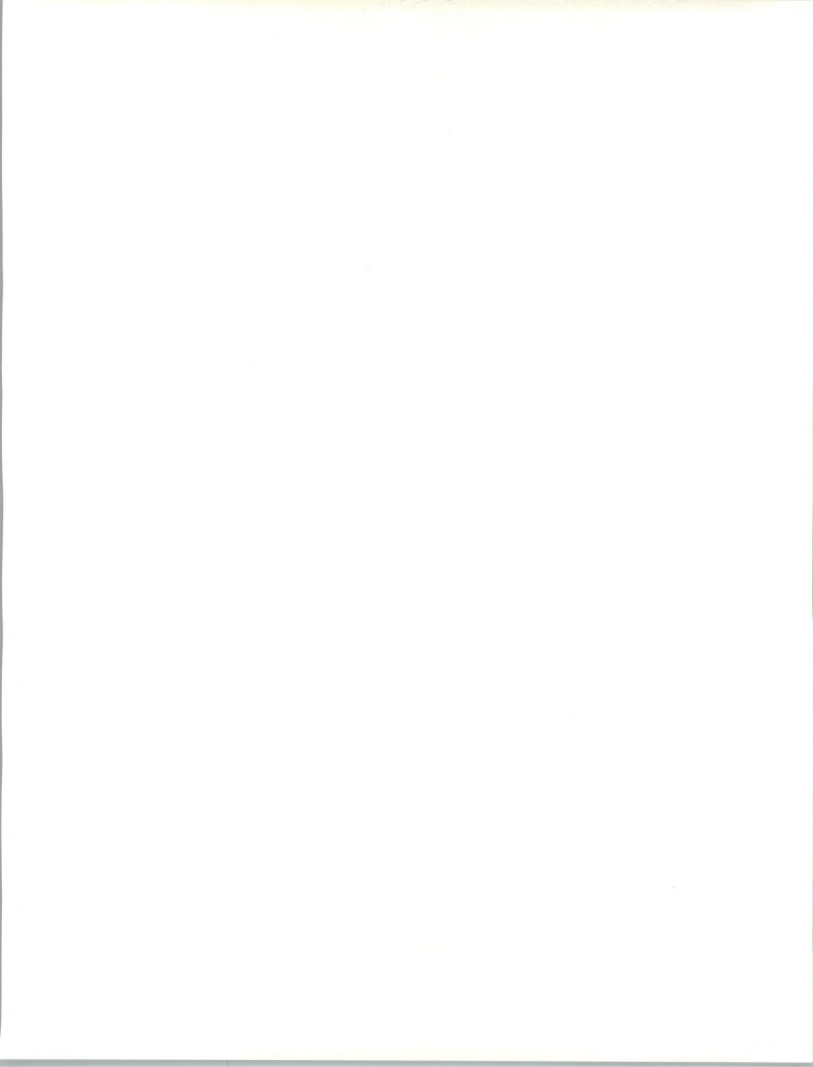
Notes



Commercial Network Integration Expenditures, 1990-1995



Notes



Vendors

INPUT
JJSEM-2-21

Notes



Primary Vendors' Capabilities

- Multivendor connectivity
- Ongoing support
- Network management
- Customer knowledge
- Prior experience
- Organizational stability

INPUT
JJSEM-2-22

Notes

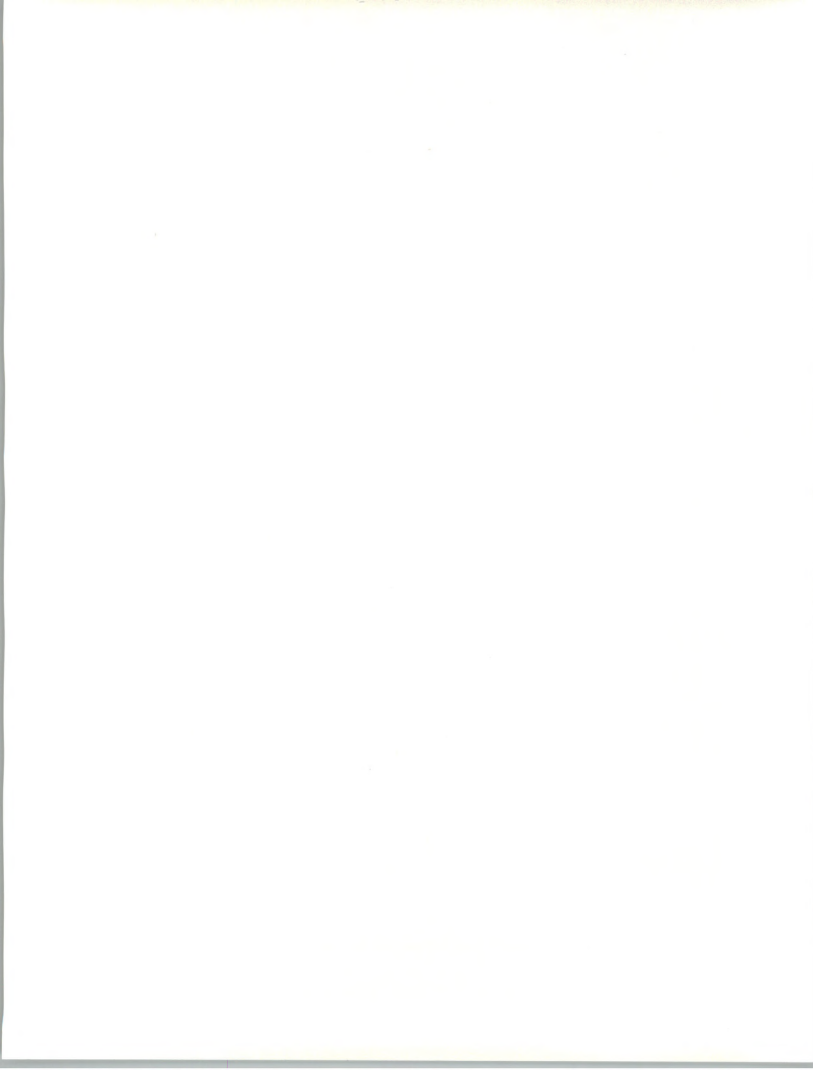


Network Integration Leading Vendors

- IBM
- AT&T
- DEC
- Novell
- 3Com

INPUT
JJSEM-2-23

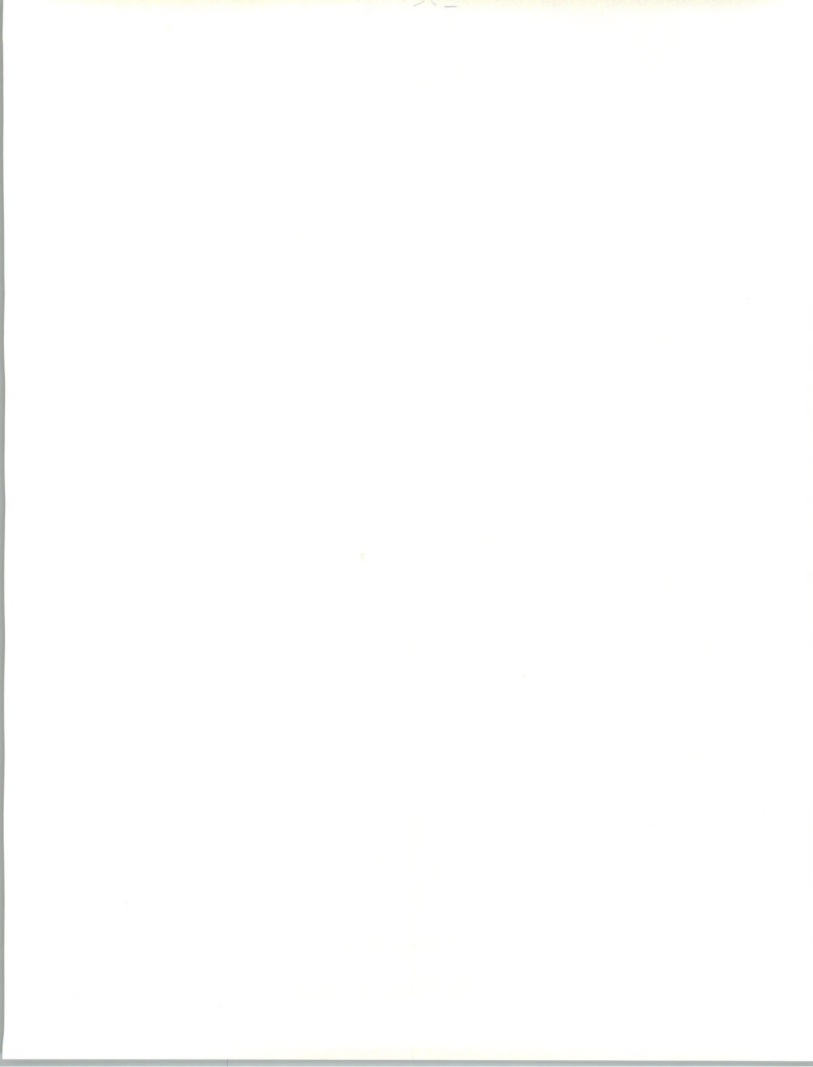
Notes



Summary

INPUT
JJSEM-2-24

Notes



Driving Forces in Network Integration

- Business requirements
- LAN integration
- Network management tools
- ISDN services
- Reduced costs

INPUT
JJSEM-2-25

Notes

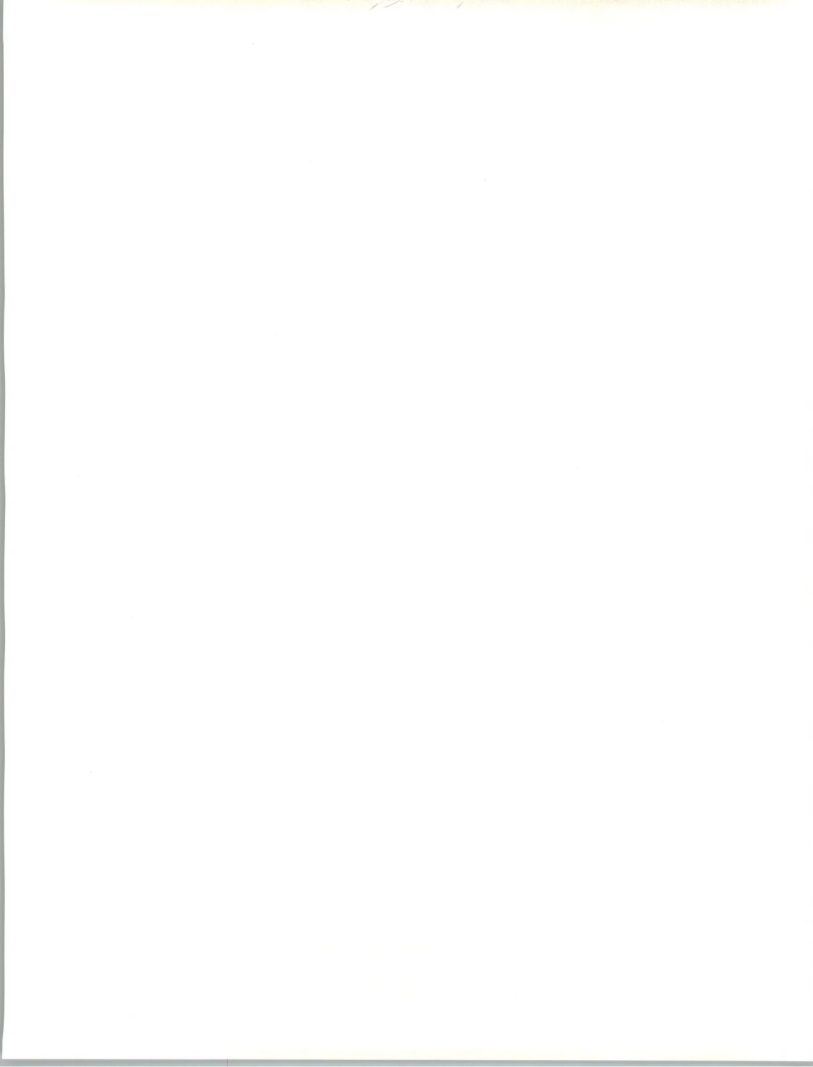


Network Integration Inhibiting Factors

- Need expertise in-house
- Vendors lack skills
- Vendors don't know business
- Better quality in-house
- Too important to contract

INPUT
JJSEM-2-26

Notes



Conclusions

- Integrated networks important
- NI/SI labels not important
- Network integration a process
- Total integration not possible
- Local-area/office networks need integrating

INPUT
JJSEM-2-27

Notes

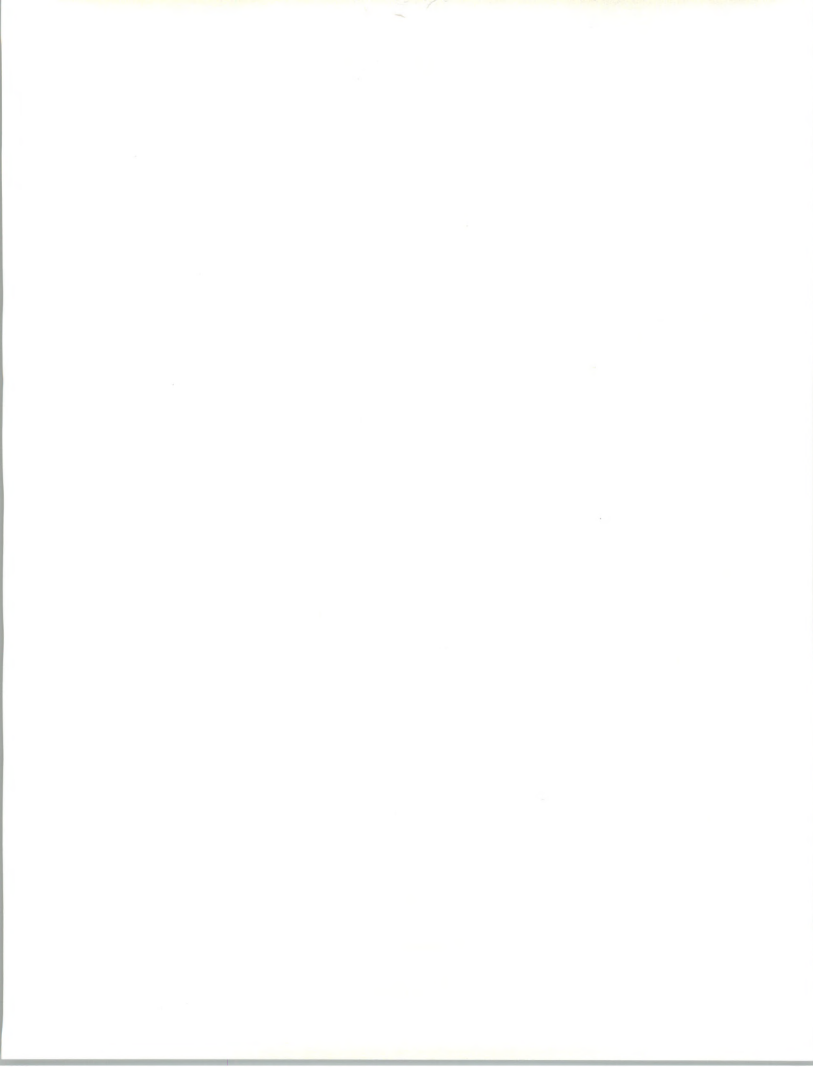


Conclusions

- Few vendors are network integrators
- Support necessary
- Multivendor expertise necessary
- Organizational knowledge necessary

INPUT
JSEM-2-28

Notes

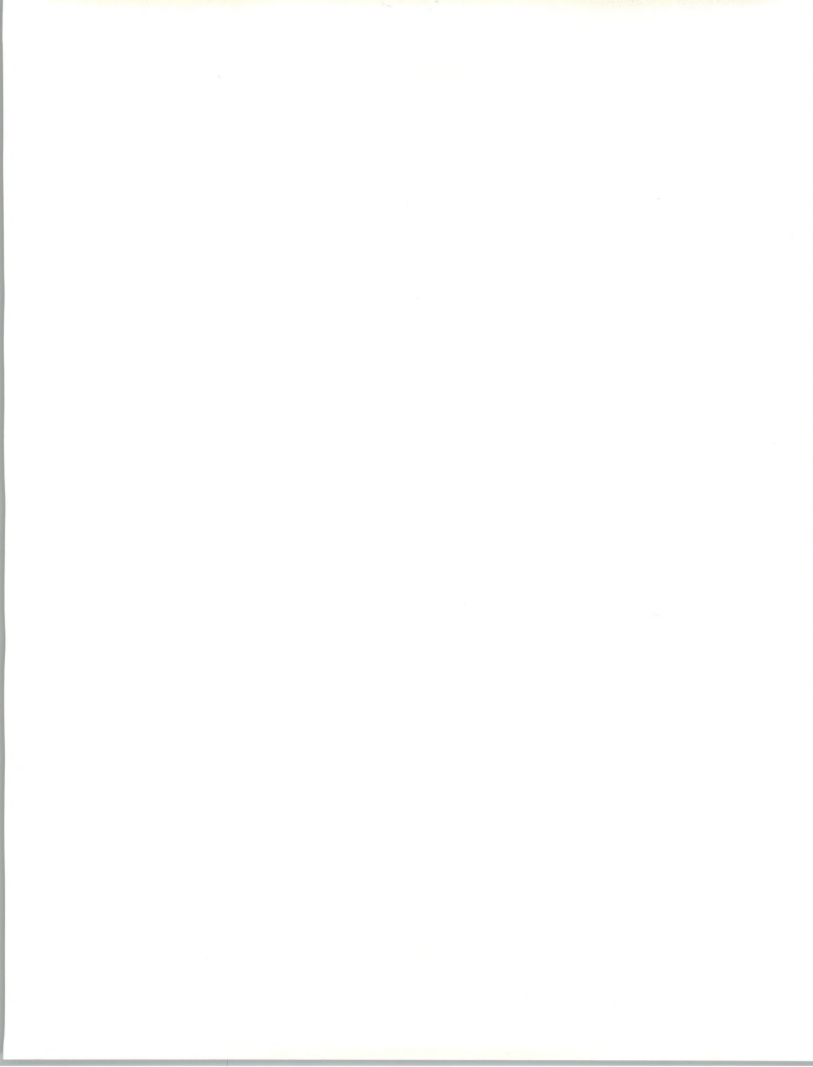


Recommendations

- Focus on platform integration
- Understand the end user
- Understand information flow
- Provide network support

INPUT
JJSEM-2-29

Notes



Japan Presentation Section 2

~~JSEM-DEU-3-~~

JJSEM-2

Network Integration

A Growing Opportunity

INPUT
BIFC-AQ-1

#1

Contents

- Definitions
- Business drivers
- Technology trends
- Market forecast
- Vendors *SIT*
- Summary

INPUT
BIFC-AQ-2

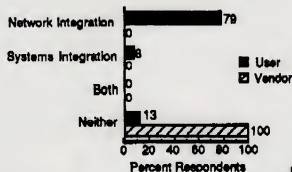
#2

Definitions

INPUT
BIFC-AQ-3

#3

Network Consolidation

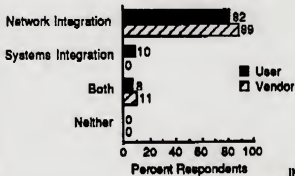


INPUT
BIFC-AQ-4

#4

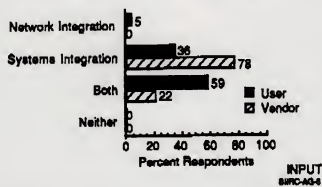


Voice/Data Integration



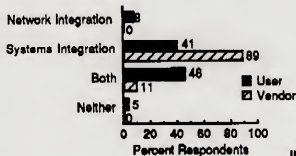
#5

Voice/Data/Application Integration



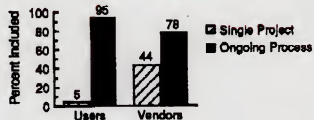
#6

Systems Integration (Network Component)



#7

Process versus Project Consideration



Data totals more than 100% due to multiple responses

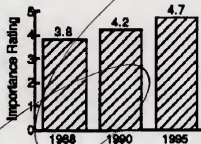
#8

Business Development

INPUT
BIRC-AQ-8

#9

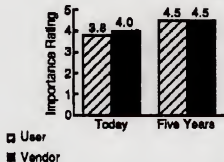
Network Importance to Business



INPUT
BIRC-AQ-10

#10

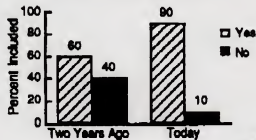
Importance of Network Integration



INPUT
BIRC-AQ-11

#10

Network Integration and Information Services Strategic Plan



INPUT
BIRC-AQ-12

#11

Network Integration Business Trends

- Increasing complexity
- Organization downsizing
- Global competitiveness
- Strategic positioning

INPUT
819C-AQ-12

#12

Technology Trends

INPUT
819C-AQ-14

#13

Network Integration Technology Trends

- Robust public networks
- Virtual network capability
- Enhanced value-added networks
- Increased PBX functionality
- Enhanced local-area networks

INPUT
819C-AQ-15

#14

Network Integration Technology Trends

- Intelligent multiplexers
- RDBMSs
- Distributed processing
- PC/Workstation growth

INPUT
819C-AQ-16

#15

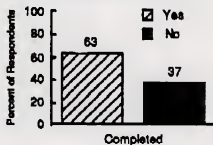


Market Forecast

INPUT
819C-AQ-17

#16

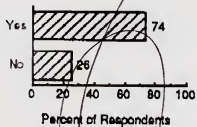
Network Integration Users Completed Projects



INPUT
819C-AQ-18

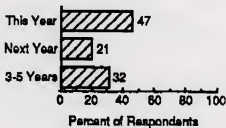
#17

Network Integration Users Planned Projects



INPUT
819C-AQ-19a

Network Integration Users Planned Projects

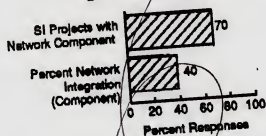


INPUT
819C-AQ-19b

#18

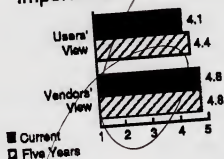


Network Portion of Systems Integration Projects



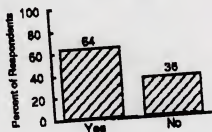
INPUT
 SRC-A0-30

Network Integration Importance to SI Projects



INPUT
 SRC-A0-31

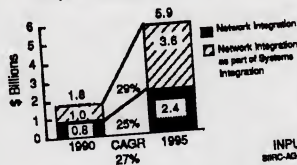
Users That Would Consider Contracting



INPUT
 SRC-A0-32

#19

Commercial Network Integration Expenditures, 1990-1995



INPUT
 SRC-A0-33

#20



Network Integration Services Leading Industry Sectors

Sector	Rank
Banking/Finance	1
Manufacturing	2
State/Local Govt.	3
Retail Distribution	4

INPUT
BIRC-AQ-24

Vendors

INPUT
BIRC-AQ-25

#21

Primary Vendors' Capabilities

- Multivendor connectivity
- Ongoing support
- Network management
- Customer knowledge
- Prior experience
- Organizational stability

INPUT
BIRC-AQ-26

#22

Network Integration Leading Vendors

- IBM
- AT&T
- DEC
- Novell
- 3Com

INPUT
BIRC-AQ-27

#23



Summary

INPUT
BTRC-A0-24

#24

Driving Forces in Network Integration

- Business requirements
- LAN Integration
- Network management tools
- ISDN services
- Reduced costs

INPUT
BTRC-A0-25

#25

Network Integration Inhibiting Factors

- Need expertise in-house
- Vendors lack skills
- Vendors don't know business
- Better quality in-house
- Too important to contract

INPUT
BTRC-A0-30

#26

Conclusions

- Integrated networks important
- NI/SI labels not important
- Network Integration a process
- Total integration not possible
- Local-area/office networks need Integrating

INPUT
BTRC-A0-31

#27



RCV BY: XERO X TELECOPIER 7010 ; 4-20-90 3:06AM ;
SENT BY: INPUT (MTN VIEW) ; 4-20-90 12:10PM ;

4159613966→
4159613966→

7038476872: #10

Conclusions

- Few vendors are network integrators
- Support necessary
- Multivendor expertise necessary
- Organizational knowledge necessary

INPUT
BAPC-AQ-38

#28

Recommendations

- Focus on platform integration
- Understand the end user
- Understand information flow
- Provide network support

INPUT
BAPC-AQ-38

#29

